

Positron Spectrum from Muon Decay †

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ABSTRACT

The positron spectrum from the decay of positive muons was studied using a sonic spark chamber spectrometer. An analysis of 1.1 million events gave a value for the Michel parameter of  $0.750 \pm 0.003$ . This number includes internal radiative corrections and is to be compared directly with the 0.750 predicted by the V-A theory. An upper limit on the mass of the muon neutrino was set at 1.5 MeV.

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